

SEQUENCE LISTING

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<120> METHODS AND COMPOSITIONS RELATING TO THE
 PHARMACOGENETICS OF DIFFERENT GENE VARIANTS

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<140> UNKNOWN

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<160> 11

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<210> 1

<211> 4868

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

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Lys	Phe	Glu	Thr	His	Met	Lys	Arg	Glu	Leu	Gln	Lys	Ala	Arg	Arg	Ala
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			260					265					270		
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		275					280					285			
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			340					345					350		
Arg	Asp	Thr	Tyr	Leu	Trp	Ile	Gly	Tyr	Leu	Cys	Ala	Ile	Leu	Leu	Phe
		355					360					365			
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Tyr	Lys	Lys	Ala	Leu	Thr	Leu	Ser	Asn	Leu	Ala	Arg	Lys	Glu	Tyr	Thr
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			420					425					430		
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		435					440					445			
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Ser	Thr	Lys	Ser	Lys	Thr	Ile	Gln	Val	Lys	Asn	Met	Lys	Asn	Lys	Asp
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			500					505					510		
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		515				520				525					
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Thr	Phe	Ser	Val	Tyr	Val	Leu	Val	Asp	Ser	Asn	Asn	Ile	Leu	Asp	Ala
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Gln	Lys	Ala	Phe	Thr	Ser	Ile	Thr	Leu	Phe	Asn	Ile	Leu	Arg	Phe	Pro
			580					585					590		
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	610					615					620				
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Glu	Ala	Ser	Phe	Thr	Trp	Glu	His	Asp	Ser	Glu	Ala	Thr	Val	Arg	Asp
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	675					680					685				
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Phe	Gly	Thr	Glu	Phe	Asn	Glu	Lys	Arg	Tyr	Gln	Gln	Val	Leu	Glu	Ala
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			740					745					750		
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	755					760						765			
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	770					775					780				
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			820					825					830		
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His	Thr	Gly	Pro	Glu	Glu	Glu	Ala	Thr	Val	His	Asp	Gly	Ser	Glu	Glu
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Glu	Asp	Asp	Asp	Tyr	Gly	Leu	Ile	Ser	Ser	Val	Glu	Glu	Ile	Pro	Glu
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Asp	Ala	Ala	Ser	Ile	Thr	Met	Arg	Arg	Glu	Asn	Ser	Phe	Arg	Arg	Thr
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Lys	Val	Lys	Phe	Ser	Ile	Tyr	Leu	Glu	Tyr	Leu	Gln	Ala	Ile	Gly	Leu
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 Ala His Phe Trp Ser Ala Phe Gly Phe Val His Ala Ser Asn Ile Leu
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 His Lys Gln Leu Leu Asn Asn Ile Leu Arg Ala Pro Met Arg Phe Phe
 1060 1065 1070
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 Ser Thr Val Asp Asp Thr Leu Pro Gln Ser Leu Arg Ser Trp Ile Thr
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 Cys Phe Leu Gly Ile Ile Ser Thr Leu Val Met Ile Cys Met Ala Thr
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 Pro Val Phe Thr Ile Ile Val Ile Pro Leu Gly Ile Ile Tyr Val Ser
 1125 1130 1135
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 His Asn Glu Val Arg Ile Asp Thr Asn Gln Lys Cys Val Phe Ser Trp
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 1220 1225 1230
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 Glu Ala Pro Trp Val Thr Asp Lys Arg Pro Pro Pro Asp Trp Pro Ser
 1285 1290 1295
 Lys Gly Lys Ile Gln Phe Asn Asn Tyr Gln Val Arg Tyr Arg Pro Glu
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 Lys Ile Gly Val Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Thr
 1330 1335 1340
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 Asp Gly Val Asp Ile Ala Ser Ile Gly Leu His Asp Leu Arg Glu Lys
 1365 1370 1375
 Leu Thr Ile Ile Pro Gln Asp Pro Ile Leu Phe Ser Gly Ser Leu Arg
 1380 1385 1390
 Met Asn Leu Asp Pro Phe Asn Asn Tyr Ser Asp Glu Glu Ile Trp Lys
 1395 1400 1405
 Ala Leu Glu Leu Ala His Leu Lys Ser Phe Val Ala Ser Leu Gln Leu
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 Gly Leu Ser His Glu Val Thr Glu Ala Gly Gly Asn Leu Ser Ile Gly
 1425 1430 1435 1440
 Gln Arg Gln Leu Leu Cys Leu Gly Arg Ala Leu Leu Arg Lys Ser Lys
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 Ile Leu Val Leu Asp Glu Ala Thr Ala Val Asp Leu Glu Thr Asp
 1460 1465 1470
 Asn Leu Ile Gln Thr Thr Ile Gln Asn Glu Phe Ala His Cys Thr Val
 1475 1480 1485
 Ile Thr Ile Ala His Arg Leu His Thr Ile Met Asp Ser Asp Lys Val
 1490 1495 1500
 Met Val Leu Asp Asn Gly Lys Ile Ile Glu Cys Gly Ser Pro Glu Glu
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 Met Asp Gln Asn Gln His Leu Asn Lys Thr Ala Glu
 1 5 10
 gca caa cct tca gag aat aag aaa aca aga tac tgc aat gga ttg aag 218
 Ala Gln Pro Ser Glu Asn Lys Lys Thr Arg Tyr Cys Asn Gly Leu Lys
 15 20 25
 atg ttc ttg gca gct ctg tca ctc agc ttt att gct aag aca cta ggt 266
 Met Phe Leu Ala Ala Leu Ser Leu Ser Phe Ile Ala Lys Thr Leu Gly
 30 35 40
 gca att att atg aaa agt tcc atc att cat ata gaa cgg aga ttt gag 314

Ala	Ile	Ile	Met	Lys	Ser	Ser	Ile	Ile	His	Ile	Glu	Arg	Arg	Phe	Glu		
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Ile	Ser	Ser	Ser	Leu	Val	Gly	Phe	Ile	Asp	Gly	Ser	Phe	Glu	Ile	Gly		
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aat	ttg	ctt	gtg	att	gta	ttt	gtg	agt	tac	ttt	gga	tcc	aaa	cta	cat		410
Asn	Leu	Leu	Val	Ile	Val	Phe	Val	Ser	Tyr	Phe	Gly	Ser	Lys	Leu	His		
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Arg	Pro	Lys	Leu	Ile	Gly	Ile	Gly	Cys	Phe	Ile	Met	Gly	Ile	Gly	Gly		
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Val	Leu	Thr	Ala	Leu	Pro	His	Phe	Phe	Met	Gly	Tyr	Tyr	Arg	Tyr	Ser		
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Lys	Glu	Thr	Asn	Ile	Asp	Ser	Ser	Glu	Asn	Ser	Thr	Ser	Thr	Leu	Ser		
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Thr	Cys	Leu	Ile	Asn	Gln	Ile	Leu	Ser	Leu	Asn	Arg	Ala	Ser	Pro	Glu		
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Ile	Val	Gly	Lys	Gly	Cys	Leu	Lys	Glu	Ser	Gly	Ser	Tyr	Met	Trp	Ile		
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Tyr	Val	Phe	Met	Gly	Asn	Met	Leu	Arg	Gly	Ile	Gly	Glu	Thr	Pro	Ile		
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Val	Pro	Leu	Gly	Leu	Ser	Tyr	Ile	Asp	Asp	Phe	Ala	Lys	Glu	Gly	His		
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tct	tct	ttg	tat	tta	ggt	ata	ttg	aat	gca	ata	gca	atg	att	ggt	cca		794
Ser	Ser	Leu	Tyr	Leu	Gly	Ile	Leu	Asn	Ala	Ile	Ala	Met	Ile	Gly	Pro		
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Ile	Ile	Gly	Phe	Thr	Leu	Gly	Ser	Leu	Phe	Ser	Lys	Met	Tyr	Val	Asp		
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Ile	Gly	Tyr	Val	Asp	Leu	Ser	Thr	Ile	Arg	Ile	Thr	Pro	Thr	Asp	Ser		
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cga	tgg	gtt	gga	gct	tgg	tgg	ctt	aat	ttc	ctt	gtg	tct	gga	cta	ttc		938
Arg	Trp	Val	Gly	Ala	Trp	Trp	Leu	Asn	Phe	Leu	Val	Ser	Gly	Leu	Phe		
		255					260					265					
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Ser	Ile	Ile	Ser	Ser	Ile	Pro	Phe	Phe	Phe	Leu	Pro	Gln	Thr	Pro	Asn		
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Lys	Pro	Gln	Lys	Glu	Arg	Lys	Ala	Ser	Leu	Ser	Leu	His	Val	Leu	Glu		
285					290					295					300		

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Thr Asn Asp Glu Lys Asp Gln Thr Ala Asn Leu Thr Asn Gln Gly Lys	
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Asn Ile Thr Lys Asn Val Thr Gly Phe Phe Gln Ser Phe Lys Ser Ile	
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Leu Thr Asn Pro Leu Tyr Val Met Phe Val Leu Leu Thr Leu Leu Gln	
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Val Ser Ser Tyr Ile Gly Ala Phe Thr Tyr Val Phe Lys Tyr Val Glu	
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465 470 475	
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Asn Gly Ile Thr Tyr Ile Ser Pro Cys Leu Ala Gly Cys Lys Ser Ser	
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